



# **Electric Bus Demonstration Project**

**Zero Emission Bus Technology Summit  
and Workshop**

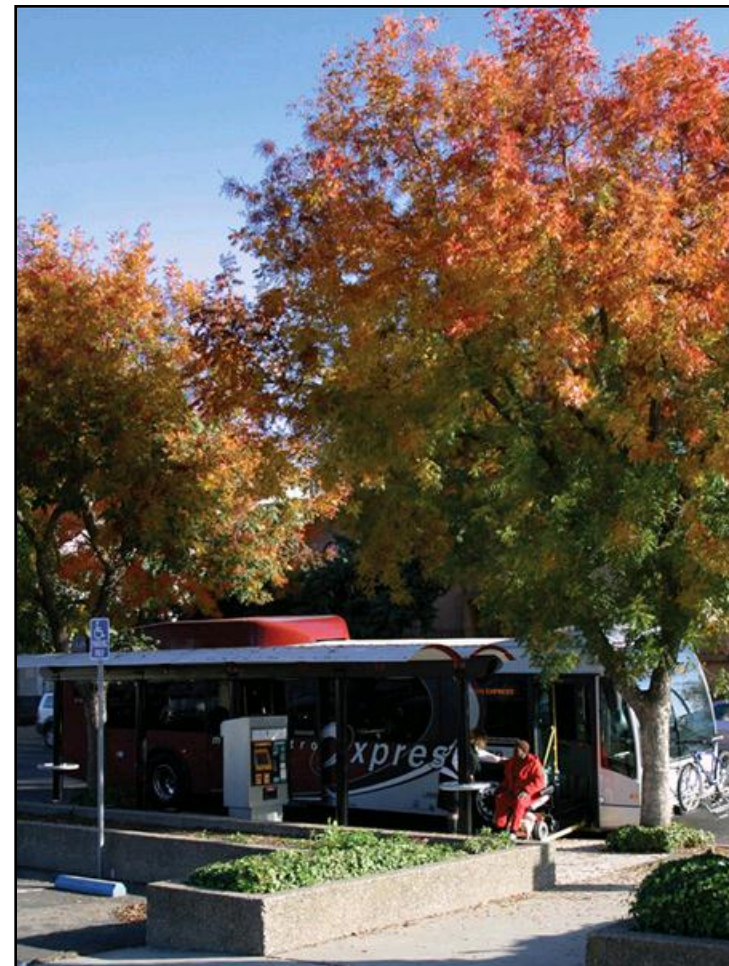
**September 17, 2013**

**George Lorente, Grants Manager**



# San Joaquin RTD: Who We Are

- RTD Statistics
  - Employees: 186(RTD) + 80(MV)
  - Revenue Vehicles: 72(RTD) + 49(MV)
  - Operating Budget: **\$31.6 million** (FY 2014)
  - Ridership: **4.3 million passenger trips** (FY 2013)
- As the regional transit provider, RTD operates:
  - 28 Stockton Metro routes
  - 3 BRT Routes (3<sup>rd</sup> launched July 2012)
  - 5 Intercity and Countywide routes
  - 8 Metro Hopper routes
  - 11 Commuter routes
  - ADA and General Public Dial-A-Ride



# San Joaquin RTD: Who We Are

- San Joaquin Regional Transit District (RTD) is the regional transportation provider for San Joaquin County, located in California's Central Valley
- The public transportation provider for the Stockton Metropolitan Area (since 1965) and unincorporated San Joaquin County (since 1994)
- Service area: San Joaquin County (over 1,400 sq. mi.)
  - Approximately 680,000 people
    - 7 incorporated cities
    - Rural communities
    - Unincorporated areas
- Neither a City nor County Agency



# Electric Bus Activities

- 2 year fast-charge electric bus demonstration project
- Partnership with Proterra and California Energy Commission (CEC)
- \$2.6 million grant provided by the CEC with total project valued at \$4 million





# Electric Bus Activities

Project Launch Event  
May 20, 2013



# Electric Bus Challenges and Opportunities

- 4th transit agency in the nation to deploy this evolving technology
- Charging equipment placement and installation
- Compressed timeline to execute project and put buses into service





# Reactions to Deployment

- Positive feedback from the public, local agencies, industry organizations, and media
- Operators initially apprehensive about operational differences; training sessions provided for operating bus
- Management thrilled with opportunities



**Debbie Hernandez** @Little\_Debs

20 May

@SanJoaquinRTD @Proterra\_Inc I love it!! So proud of you guys! A big step in improving the air quality in the San Joaquin Valley! Congrats!

Retweeted by San Joaquin RTD

[View conversation](#)



**Debbie Hernandez** @Little\_Debs

20 May

. @SanJoaquinRTD Electric Buses Ready to Roll in San Joaquin County! - [sacramento.cbslocal.com/2013/05/20/e...](http://sacramento.cbslocal.com/2013/05/20/electric-buses-ready-to-roll-in-san-joaquin-county/) #Stockton

Retweeted by San Joaquin RTD

[View summary](#)

# Reactions to Deployment

**The Record**

Founded in 1885 by Irving Martin

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## Opinion

## Transit California

Home > News & Publications > Publications > Transit California > Transit California Archives > 2013 Editions > May > Plugged Into Progress



## RTD charges into the future

**“Charge” and “quickly” are two words likely to be used more often around the San Joaquin Regional Transit District in the months ahead.**

the buses during a lunchtime gathering this week at the courtyard of the University Plaza Waterfront Hotel.

When the buses go into the RTD fleet next month they will be hard to miss — and not because exhaust

lent of 20 miles per gallon (the best hybrid bus RTD uses today gets about 6 miles per gallon) stopping periodically for a quick 10-minute recharge.

They are expected to go in service on Route 51 between San

## Local

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BARBARA ZUMWALT, DEPUTY METRO EDITOR | (209) 546-8298 | bzumwalt@recordnet.com | fax (209) 547-8186

JUNE 7, 2013

## Electric bus goes for test drive

By Zachary K. Johnson  
Record Staff Writer

STOCKTON — “Hang on. Hang on.”

Larry Dunkley, 57, slowly edged his bus into the shelter.

“Clear,” he said above a couple of different kinds of beeps as he relinquished some — but not all — of the control to the computer on the still-moving bus.

“Docking in progress. ... The head is landing. ... Proceed slowly,” he said as the bus connected to a device hanging from the shelter at the San Joaquin Regional Transit District Downtown Transit Center.

“And stop. And set parking brake, we’re good,” Dunkley said, unbuckling his seat belt



One of RTD's new electric buses is parked under its charging pod Thursday at the Downtown Transit Center in Stockton. Two of these buses should be in service Monday on Route 51.

and getting off the electric bus, which was now sucking down enough electricity to juice its batteries, topping off the charge in a few minutes. It's the quick charge that makes using an electric bus a viable option on a working bus route, transit officials said. The

**MORE ONLINE**

Take a virtual ride on one of the new electric buses by watching video on our website.

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all-electric bus was on a trial run Thursday, but two of them are expected to be running the regular 51 route on Monday, connecting downtown Stockton to San Joaquin General in the south and the mall transfer in central Stockton to the north.

It will be a first in Northern California, officials said.

“Electric vehicles in the past, SEE BUS, PAGE A4

## h of Zero-Emission, All-Electric Buses



Above, the new all-electric, zero-emissions Proterra Inc. bus rolls out for a first look at University Plaza Waterfront Hotel in Stockton. At right, RTD General Manager/CEO Donna DeMartino talks with Proterra Inc.'s Vice President of Sales and Marketing Ian Shackleton at the Proterra Launch Event.



Photos courtesy of San Joaquin RTD

es on  
charger at  
uses will

is the DTC as its midpoint. At the DTC, the 100-percent battery-electric buses will use the overhead charger to fully operate up to two hours on a charge.

era of zero-emission public transportation, and we are proud of what we can now offer to those who live and work in Donna DeMartino. “RTD is a local leader in the adoption of technologies that improve the environment and provide mmunity.”



## Electric Bus



APTA Sustainability Conference  
in San Francisco

RTD's electric buses continue to get industry and media attention

- Requests for special tours, demonstrations, speaking engagements to discuss the electric bus project, media interviews and articles

## Future Deployments

- Interest in future deployment, particularly with the availability of grants to cover portion of the capital costs

